

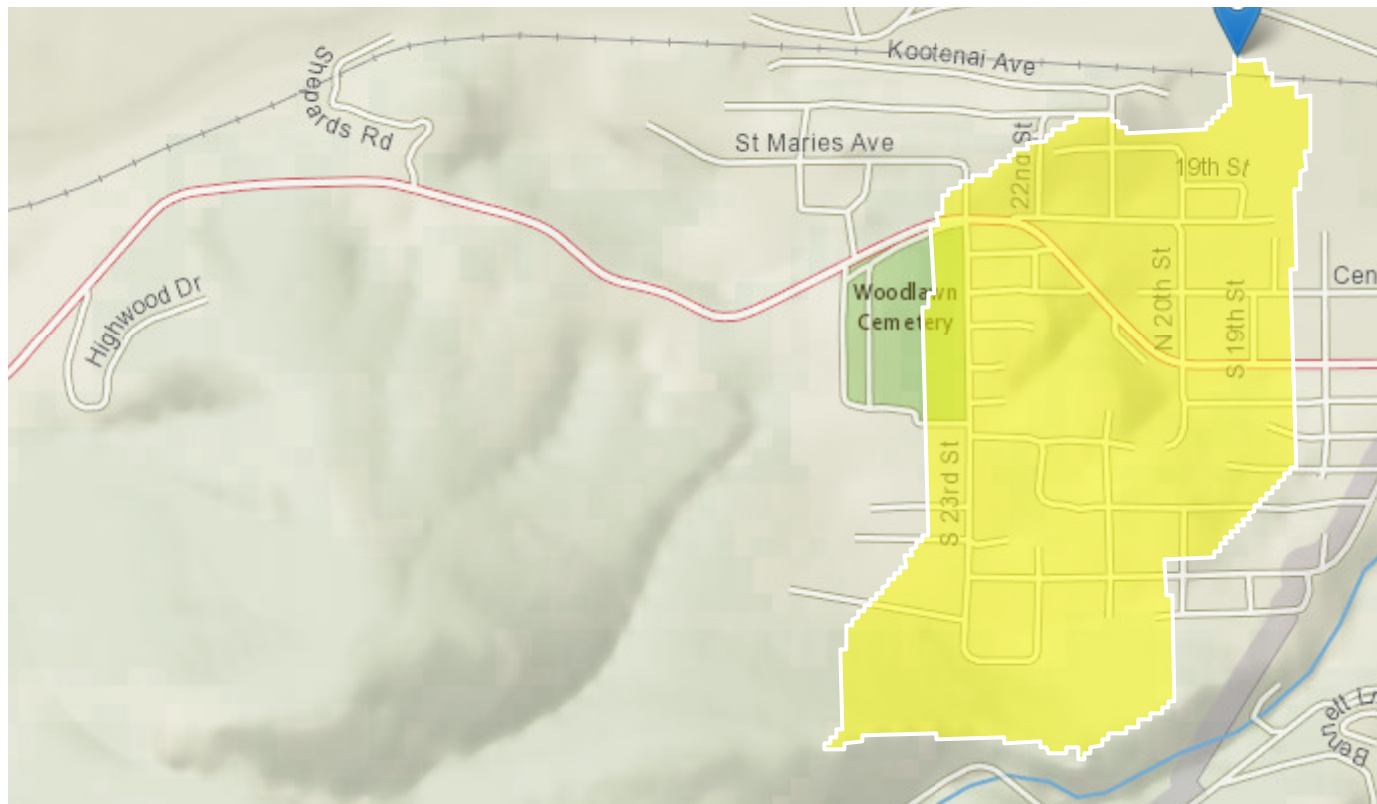
Potlatch Deltic Mutch Creek Report

Region ID: ID

Workspace ID: ID20200313194503099000

Clicked Point (Latitude, Longitude): 47.32048, -116.58042

Time: 2020-03-13 12:45:21 -0700



Point selected is near outfall 002, but the identified stream in StreamStats doesn't match the alignment of the stream on the site map.

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.21	square miles
PRECIP	Mean Annual Precipitation	25.2	inches
PRECPRIS10	Basin average mean annual precipitation for 1981 to 2010 from PRISM	29.7	inches
FOREST	Percentage of area covered by forest	26	percent

Parameter Code	Parameter Description	Value	Unit
ELEV	Mean Basin Elevation	2300	feet
RELIEF	Maximum - minimum elevation	635	feet
AG_OF_DA	Agricultural Land in Percentage of Drainage Area (Idaho Logistic Regression Equations SIR 2006-5035	0.52	percent
BSLDEM10M	Mean basin slope computed from 10 m DEM	16	percent
BSLDEM30M	Mean basin slope computed from 30 m DEM	14.5	percent
CSL1085LFP	Change in elevation divided by length between points 10 and 85 percent of distance along the longest flow path to the basin divide, LFP from 2D grid	411	feet per mi
CSL10_85	Change in elevation divided by length between points 10 and 85 percent of distance along main channel to basin divide - main channel method not known	385	feet per mi
DV_OF_DA	Developed Land in Percentage of Drainage Area (Idaho Logistic Regression Equations SIR 2006-5035	67.8	percent
ELEVMAX	Maximum basin elevation	2770	feet
IMPNLCD01	Percentage of impervious area determined from NLCD 2001 impervious dataset	14.2	percent
LAKEAREA	Percentage of Lakes and Ponds	0	percent
LC01DEV	Percentage of land-use from NLCD 2001 classes 21-24	59.3	percent
LC11FOREST	Percentage of forest from NLCD 2011 classes 41-43	35	percent
MINBELEV	Minimum basin elevation	2140	feet
NFSL30_10M	Percent area with north-facing slopes greater than 30 percent from 10-meter NED.	15	percent
NFSL30_30M	Percent area with north-facing slopes greater than 30 percent from 30-meter DEM.	14	percent
SLOP30_10M	Percent area with slopes greater than 30 percent from 10-meter NED	17	percent
SLOP30_30M	Percent area with slopes greater than 30 percent from 30-meter DEM.	13.2	percent
SLOP50	Slopes Greater Than 50 Percent as percent of drainage area	2.6	percent
VOLCANIC	Percent of drainage area as surficial volcanic rocks as defined in SIR 2006-5035	79.1	percent

Low-Flow Statistics Parameters[Low Flow Region 2 2006 5053]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.21	square miles	3	2442.5
PRECIP	Mean Annual Precipitation	25.2	inches	24.8	69.4

Low-Flow Statistics Disclaimers[Low Flow Region 2 2006 5053]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors

Low-Flow Statistics Flow Report[Low Flow Region 2 2006 5053]

Statistic	Value	Unit
1 Day 10 Year Low Flow	0.00675	ft ³ /s
7 Day 2 Year Low Flow	0.0148	ft ³ /s
7 Day 10 Year Low Flow	0.00829	ft ³ /s
30 Day 5 Year Low Flow	0.0135	ft ³ /s

Low-Flow Statistics Citations

Hortness, J.E., 2006, Estimating Low-Flow Frequency Statistics for Unregulated Streams in Idaho: U.S. Geological Survey Scientific Investigations Report 2006-5035, 31 p. (<http://pubs.usgs.gov/sir/2006/5035/pdf/sir20065035.pdf>)

Peak-Flow Statistics Parameters[Peak Flow Region 1 and 2 2016 5083]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.21	square miles	1.11	107000
PRECPRIS10	Mean Annual Precip PRISM 1981 2010	29.7	inches	21.3	66.8

Peak-Flow Statistics Disclaimers[Peak Flow Region 1 and 2 2016 5083]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors

Peak-Flow Statistics Flow Report[Peak Flow Region 1 and 2 2016 5083]

Statistic	Value	Unit
1.25 Year Peak Flood	0.847	ft ³ /s
1.5 Year Peak Flood	1.14	ft ³ /s
2 Year Peak Flood	1.56	ft ³ /s
2 33 Year Peak Flood	1.82	ft ³ /s
5 Year Peak Flood	2.91	ft ³ /s
10 Year Peak Flood	3.94	ft ³ /s
25 Year Peak Flood	5.44	ft ³ /s
50 Year Peak Flood	6.68	ft ³ /s
100 Year Peak Flood	8.2	ft ³ /s
200 Year Peak Flood	9.7	ft ³ /s
500 Year Peak Flood	11.8	ft ³ /s

Peak-Flow Statistics Citations

Wood, M.S., Fosness, R.L., Skinner, K.D., and Veilleux, A.G., 2016, Estimating peak-flow frequency statistics for selected gaged and ungaged sites in naturally flowing streams and rivers in Idaho: U.S. Geological Survey Scientific Investigations Report 2016–5083, 56 p. (<http://dx.doi.org/10.3133/sir20165083>)

Annual Flow Statistics Parameters[Monthly Annual Region 2 2001 4093]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.21	square miles	3	2442.5
PRECIP	Mean Annual Precipitation	25.2	inches	24.8	69.4
FOREST	Percent Forest	26	percent	50.3	95.1

Annual Flow Statistics Disclaimers[Monthly Annual Region 2 2001 4093]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors

Annual Flow Statistics Flow Report[Monthly Annual Region 2 2001 4093]

Statistic	Value	Unit
Mean Annual Flow	0.0453	ft ³ /s

Annual Flow Statistics Citations

Hortness, J.E., and Berenbrock, Charles, 2001, Estimating Monthly and Annual Streamflow Statistics at Ungaged Sites in Idaho: U.S. Geological Survey Water-Resources Investigations Report 01-4093, 36 p. (<http://idaho.usgs.gov/PDF/wri014093/index.html>)

January Flow-Duration Statistics Parameters [Monthly Annual Region 2 2001 4093]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.21	square miles	3	2442.5
PRECIP	Mean Annual Precipitation	25.2	inches	24.8	69.4
FOREST	Percent Forest	26	percent	50.3	95.1

January Flow-Duration Statistics Disclaimers [Monthly Annual Region 2 2001 4093]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors

January Flow-Duration Statistics Flow Report [Monthly Annual Region 2 2001 4093]

Statistic	Value	Unit
January 20 Percent Duration	0.00602	ft ³ /s
January 50 Percent Duration	0.00353	ft ³ /s
January 80 Percent Duration	0.00397	ft ³ /s

January Flow-Duration Statistics Citations

Hortness, J.E., and Berenbrock, Charles, 2001, Estimating Monthly and Annual Streamflow Statistics at Ungaged Sites in Idaho: U.S. Geological Survey Water-Resources Investigations Report 01-4093, 36 p. (<http://idaho.usgs.gov/PDF/wri014093/index.html>)

February Flow-Duration Statistics Parameters [Monthly Annual Region 2 2001 4093]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.21	square miles	3	2442.5
PRECIP	Mean Annual Precipitation	25.2	inches	24.8	69.4
FOREST	Percent Forest	26	percent	50.3	95.1
ELEV	Mean Basin Elevation	2300	feet	3465.5	6649.7

February Flow-Duration Statistics Disclaimers[Monthly Annual Region 2 2001 4093]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors

February Flow-Duration Statistics Flow Report[Monthly Annual Region 2 2001 4093]

Statistic	Value	Unit
February 20 Percent Duration	0.118	ft^3/s
February 50 Percent Duration	0.0216	ft^3/s
February 80 Percent Duration	0.0041	ft^3/s

February Flow-Duration Statistics Citations

Hortness, J.E., and Berenbrock, Charles, 2001, Estimating Monthly and Annual Streamflow Statistics at Ungaged Sites in Idaho: U.S. Geological Survey Water-Resources Investigations Report 01-4093, 36 p. (<http://idaho.usgs.gov/PDF/wri014093/index.html>)

March Flow-Duration Statistics Parameters[Monthly Annual Region 2 2001 4093]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.21	square miles	3	2442.5
PRECIP	Mean Annual Precipitation	25.2	inches	24.8	69.4
FOREST	Percent Forest	26	percent	50.3	95.1
ELEV	Mean Basin Elevation	2300	feet	3465.5	6649.7

March Flow-Duration Statistics Disclaimers[Monthly Annual Region 2 2001 4093]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors

March Flow-Duration Statistics Flow Report[Monthly Annual Region 2 2001 4093]

Statistic	Value	Unit
March 20 Percent Duration	0.0661	ft^3/s
March 50 Percent Duration	0.0288	ft^3/s
March 80 Percent Duration	0.0121	ft^3/s

March Flow-Duration Statistics Citations

Hortness, J.E., and Berenbrock, Charles, 2001, Estimating Monthly and Annual Streamflow Statistics at Ungaged Sites in Idaho: U.S. Geological Survey Water-Resources Investigations Report 01-4093, 36 p. (<http://idaho.usgs.gov/PDF/wri014093/index.html>)

April Flow-Duration Statistics Parameters [Monthly Annual Region 2 2001 4093]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.21	square miles	3	2442.5
PRECIP	Mean Annual Precipitation	25.2	inches	24.8	69.4
FOREST	Percent Forest	26	percent	50.3	95.1
ELEV	Mean Basin Elevation	2300	feet	3465.5	6649.7

April Flow-Duration Statistics Disclaimers [Monthly Annual Region 2 2001 4093]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors

April Flow-Duration Statistics Flow Report [Monthly Annual Region 2 2001 4093]

Statistic	Value	Unit
April 20 Percent Duration	0.0765	ft ³ /s
April 50 Percent Duration	0.0282	ft ³ /s
April 80 Percent Duration	0.0119	ft ³ /s

April Flow-Duration Statistics Citations

Hortness, J.E., and Berenbrock, Charles, 2001, Estimating Monthly and Annual Streamflow Statistics at Ungaged Sites in Idaho: U.S. Geological Survey Water-Resources Investigations Report 01-4093, 36 p. (<http://idaho.usgs.gov/PDF/wri014093/index.html>)

May Flow-Duration Statistics Parameters [Monthly Annual Region 2 2001 4093]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.21	square miles	3	2442.5
PRECIP	Mean Annual Precipitation	25.2	inches	24.8	69.4
FOREST	Percent Forest	26	percent	50.3	95.1
ELEV	Mean Basin Elevation	2300	feet	3465.5	6649.7

May Flow-Duration Statistics Disclaimers[Monthly Annual Region 2 2001 4093]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors

May Flow-Duration Statistics Flow Report[Monthly Annual Region 2 2001 4093]

Statistic	Value	Unit
May 20 Percent Duration	0.007	ft ³ /s
May 50 Percent Duration	0.00229	ft ³ /s
May 80 Percent Duration	0.000384	ft ³ /s

May Flow-Duration Statistics Citations

Hortness, J.E., and Berenbrock, Charles, 2001, Estimating Monthly and Annual Streamflow Statistics at Ungaged Sites in Idaho: U.S. Geological Survey Water-Resources Investigations Report 01-4093, 36 p. (<http://idaho.usgs.gov/PDF/wri014093/index.html>)

June Flow-Duration Statistics Parameters[Monthly Annual Region 2 2001 4093]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.21	square miles	3	2442.5
RELIEF	Relief	635	feet	1643.9	7789.6
PRECIP	Mean Annual Precipitation	25.2	inches	24.8	69.4
FOREST	Percent Forest	26	percent	50.3	95.1
ELEV	Mean Basin Elevation	2300	feet	3465.5	6649.7

June Flow-Duration Statistics Disclaimers[Monthly Annual Region 2 2001 4093]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors

June Flow-Duration Statistics Flow Report[Monthly Annual Region 2 2001 4093]

Statistic	Value	Unit
June 20 Percent Duration	0.000605	ft ³ /s
June 50 Percent Duration	0.000452	ft ³ /s
June 80 Percent Duration	0.000556	ft ³ /s

June Flow-Duration Statistics Citations

Hortness, J.E., and Berenbrock, Charles, 2001, Estimating Monthly and Annual Streamflow Statistics at Ungaged Sites in Idaho: U.S. Geological Survey Water-Resources Investigations Report 01-4093, 36 p. (<http://idaho.usgs.gov/PDF/wri014093/index.html>)

July Flow-Duration Statistics Parameters[Monthly Annual Region 2 2001 4093]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.21	square miles	3	2442.5
RELIEF	Relief	635	feet	1643.9	7789.6
PRECIP	Mean Annual Precipitation	25.2	inches	24.8	69.4
FOREST	Percent Forest	26	percent	50.3	95.1
ELEV	Mean Basin Elevation	2300	feet	3465.5	6649.7

July Flow-Duration Statistics Disclaimers[Monthly Annual Region 2 2001 4093]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors

July Flow-Duration Statistics Flow Report[Monthly Annual Region 2 2001 4093]

Statistic	Value	Unit
July 20 Percent Duration	0.00149	ft ³ /s
July 50 Percent Duration	0.00111	ft ³ /s
July 80 Percent Duration	0.000591	ft ³ /s

July Flow-Duration Statistics Citations

Hortness, J.E., and Berenbrock, Charles, 2001, Estimating Monthly and Annual Streamflow Statistics at Ungaged Sites in Idaho: U.S. Geological Survey Water-Resources Investigations Report 01-4093, 36 p. (<http://idaho.usgs.gov/PDF/wri014093/index.html>)

August Flow-Duration Statistics Parameters[Monthly Annual Region 2 2001 4093]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.21	square miles	3	2442.5
PRECIP	Mean Annual Precipitation	25.2	inches	24.8	69.4

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
FOREST	Percent Forest	26	percent	50.3	95.1
ELEV	Mean Basin Elevation	2300	feet	3465.5	6649.7

August Flow-Duration Statistics Disclaimers[Monthly Annual Region 2 2001 4093]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors

August Flow-Duration Statistics Flow Report[Monthly Annual Region 2 2001 4093]

Statistic	Value	Unit
August 20 Percent Duration	0.00146	ft^3/s
August 50 Percent Duration	0.000851	ft^3/s
August 80 Percent Duration	0.0003	ft^3/s

August Flow-Duration Statistics Citations

Hortness, J.E., and Berenbrock, Charles,2001, Estimating Monthly and Annual Streamflow Statistics at Ungaged Sites in Idaho: U.S. Geological Survey Water-Resources Investigations Report 01–4093, 36 p. (<http://idaho.usgs.gov/PDF/wri014093/index.html>)

September Flow-Duration Statistics Parameters[Monthly Annual Region 2 2001 4093]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.21	square miles	3	2442.5
PRECIP	Mean Annual Precipitation	25.2	inches	24.8	69.4
FOREST	Percent Forest	26	percent	50.3	95.1
ELEV	Mean Basin Elevation	2300	feet	3465.5	6649.7

September Flow-Duration Statistics Disclaimers[Monthly Annual Region 2 2001 4093]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors

September Flow-Duration Statistics Flow Report[Monthly Annual Region 2 2001 4093]

Statistic	Value	Unit
September 20 Percent Duration	0.00281	ft^3/s

Statistic	Value	Unit
September 50 Percent Duration	0.000765	ft^3/s
September 80 Percent Duration	0.000232	ft^3/s

September Flow-Duration Statistics Citations

Hortness, J.E., and Berenbrock, Charles,2001, Estimating Monthly and Annual Streamflow Statistics at Ungaged Sites in Idaho: U.S. Geological Survey Water-Resources Investigations Report 01–4093, 36 p. (<http://idaho.usgs.gov/PDF/wri014093/index.html>)

October Flow-Duration Statistics Parameters[Monthly Annual Region 2 2001 4093]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.21	square miles	3	2442.5
RELIEF	Relief	635	feet	1643.9	7789.6
PRECIP	Mean Annual Precipitation	25.2	inches	24.8	69.4

October Flow-Duration Statistics Disclaimers[Monthly Annual Region 2 2001 4093]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors

October Flow-Duration Statistics Flow Report[Monthly Annual Region 2 2001 4093]

Statistic	Value	Unit
October 20 Percent Duration	0.0181	ft^3/s
October 50 Percent Duration	0.0184	ft^3/s
October 80 Percent Duration	0.0201	ft^3/s

October Flow-Duration Statistics Citations

Hortness, J.E., and Berenbrock, Charles,2001, Estimating Monthly and Annual Streamflow Statistics at Ungaged Sites in Idaho: U.S. Geological Survey Water-Resources Investigations Report 01–4093, 36 p. (<http://idaho.usgs.gov/PDF/wri014093/index.html>)

November Flow-Duration Statistics Parameters[Monthly Annual Region 2 2001 4093]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
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Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.21	square miles	3	2442.5
RELIEF	Relief	635	feet	1643.9	7789.6
PRECIP	Mean Annual Precipitation	25.2	inches	24.8	69.4

November Flow-Duration Statistics Disclaimers[Monthly Annual Region 2 2001 4093]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors

November Flow-Duration Statistics Flow Report[Monthly Annual Region 2 2001 4093]

Statistic	Value	Unit
November 20 Percent Duration	0.0526	ft^3/s
November 50 Percent Duration	0.0276	ft^3/s
November 80 Percent Duration	0.0231	ft^3/s

November Flow-Duration Statistics Citations

Hortness, J.E., and Berenbrock, Charles,2001, Estimating Monthly and Annual Streamflow Statistics at Ungaged Sites in Idaho: U.S. Geological Survey Water-Resources Investigations Report 01–4093, 36 p. (<http://idaho.usgs.gov/PDF/wri014093/index.html>)

December Flow-Duration Statistics Parameters[Monthly Annual Region 2 2001 4093]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.21	square miles	3	2442.5
PRECIP	Mean Annual Precipitation	25.2	inches	24.8	69.4
FOREST	Percent Forest	26	percent	50.3	95.1

December Flow-Duration Statistics Disclaimers[Monthly Annual Region 2 2001 4093]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors

December Flow-Duration Statistics Flow Report[Monthly Annual Region 2 2001 4093]

Statistic	Value	Unit
December 20 Percent Duration	0.0088	ft^3/s

Statistic	Value	Unit
December 50 Percent Duration	0.00736	ft ³ /s
December 80 Percent Duration	0.00531	ft ³ /s

December Flow-Duration Statistics Citations

Hortness, J.E., and Berenbrock, Charles, 2001, Estimating Monthly and Annual Streamflow Statistics at Ungaged Sites in Idaho: U.S. Geological Survey Water-Resources Investigations Report 01-4093, 36 p. (<http://idaho.usgs.gov/PDF/wri014093/index.html>)

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Application Version: 4.3.11